

MOLENT' YEV, L.A.

Method for the determination of heat and fuel consumption in
central heating plants. Trudy LIEI no.5:136-142 '50. (MLRA 9:8)
(Heating from central stations)

MELENT'YEV, L.A.; MICHURINA, K.I.

Conditions for using mixing pump substations in central heating
systems. Trudy LII no.5:163-197 '50. (MLBA 9:8)
(Heating from central stations)

SHATELEN, M. A., ZALESSKIY, A. M., LEBEDEV, V. P., TELESHEY, B. A.,
ZHERBIN, S. M., ARKHANGEL'SKIY, F. K., BAUMGOL'TS, A. I.,
ZOLOTAREV, T. L., BUSHUYEV, M. N., PROSKURYAKOV, V., GURVICH, A. M.,
YES'MAN, A. I., SHVETS, F. T., KONDRAT'YEV, G. M., USOV, S. V.,
ALEKSEYEV, A. YE., BOLOTOV, V. V., TIKHODEYEV, I. M., GERASIMOV, N. V.,
MELENT'YEV, L. A., LEVIT, G. O., ORLOVSKIY, A. V., VEDIKHOV, V. M.,
STRIKOVICH, M. A., GREYNER, L. K., NIKIFOROV, V. V., SOLODOVNIKOV, G. S.,
SMIRNOV, S. P., ZOLOTAREVA, N. A., KALEKINA, N. M., GOL'DMERSHTEYN, T. L.,
KLEBANOV, L. D., SALUYEV, N. F., ZAIKO, A. A., MARTEKS, M. F.

A. S. Rumyantsev, Obituary. Elektrichestvo, No. 2, 1952.

SO: Monthly List of Russian Accessions, Library of Congress, July 1952 1952/ Uncl.

MELENT'YEV, L. A.

Steam power plants.

Fields of application of steam drive for mechanical power machines., Za. ekon. top., no. 2, 1952

Monthly List of Russian Accessions. Library of Congress, March 1952. Unclassified.

MELENT'YEV, L. A.; AGRACHEV, I. I.;
LEVENTAL', G. B.; MICHURIN, K. I.

Heating from Central Stations

Efficient schemes of heating systems for large cities and industrial centers. Izv. AN
SSSR Otd. tekhn. nauk, no. 4, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

BTR

20

9088* Methods of Planning and Standardizing the Consumption of Heat and Fuel for the Heating of Buildings.
(In Russian) L. A. Melentyev. *Zh. Ekonomich. Topika*, v. 9
Mar. 1952, p. 17-21
Discusses the above as a national economic problem and considers heat balance of buildings and various heating systems.

BOLOTOV, V.V., doktor tekhnicheskikh nauk; MELENT'YEV, L.A., doktor ekonomicheskikh nauk; BRIL, R.F., kandidat tekhnicheskikh nauk; LEVENTAL', G.B., kandidat tekhnicheskikh nauk; MICHURINA, K.I., kandidat tekhnicheskikh nauk [reviewers]; DUNAIEVSKIY, N.I. [author].

"Technical and economic principles of heating systems." N.I. Dunaevskii. Reviewed by V.V.Bolotov, L.A.Melent'ev, R.F.Brill', G.B.Levental', K.I.Michurina. Elek. sta. 24 no.12:56-57 D '53.
(MLRA 6:12)

(Dunaevskii, N.I.) (Heating from central stations)

MELENT'YEV, L.A.

~~Basic problems of industrial heat and power engineering~~

[Basic problems of industrial heat and power engineering]
Osnovnye voprosy promyshlennoi teploenergetiki. Moskva, Gos.
energ. izd-vo, 1954. 423 p. (MLRA 7:8)
(Heat engineering) (Power engineering)

NITSKEVICH, Yevgeniy Arkad'yevich; MELENT'YEV, L.A., prof.; retsenzent;
ROSSIYEVSKIY, G.I., kand.tekhn.nauk; retsenzent; KABELYANSKIY,
G.V., inzh., retsenzent; SUSHKIN, I.N., inzh., red.; MURZAKOV,
V.V., kand.tekhn.nauk, red.; NEPOMNYASHCHIY, N.V., red.isd-va;
ATTOPOVICH, M.K., tekhn.red.

[Full use of fuel in ferrous metallurgy] Ispol'zovanie topliva
v chernoi metallurgii. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry
po chernoi i tsvetnoi metallurgii, 1954. 622 p.

(MIRA 14:1)

(Metallurgical plants--Equipment and supplies)

(Fuel)

MELENT'YEV, L. A.

AID P - 2404

Subject : USSR/Electricity

Card 1/4 Pub. 26 - 3/33

Authors : Melent'yev, L. A., Prof. and Agrachev, I. I.

Title : Single pipeline system of heat supply to cities and industry

Periodical : Elek sta 5, 8-13, My 1955

Abstract : The possibility of a single pipeline system is discussed in detail. A schematic diagram showing the eventual layout of a heat and electric power plant with new type turbines is presented. The problem of a heat network is discussed and the construction underway, of an experimental automatic pumping station for hot water in Leningrad is mentioned. The operational conditions and safety of the new system are discussed with graphs and tables. The single pipeline heat supply is also recommended for possible financial savings. In conclusion, the author strongly recommends additional research on the problem. Eight diagrams.

MELENT'YEV, L.A., doktor ekonomicheskikh nauk, professor

Long distance heat supply. Nauka i zhizn' 22 no.7:27-28 J1 '55.
(Heating from central stations) (MLBA 8:9)

LEVENTAL', G.B. (Leningrad); MELENT'YEV, L.A. (Leningrad)

Correlation between the thermodynamic and power indexes of
heat-power plant efficiency. Izv.AN SSSR.Otd.tekh.nauk no.5:
40-49 My '56. (MLRA 9:8)
(Power plants) (Thermodynamics)

AID P - 5099

Subject : USSR/Engineering

Card 1/2 Pub. 110-a - 2/18

Author : Melent'yev, L. A., Prof., Dr. of Economics

Title : Parallel operation of Heat and Power Plants feeding the open-circuit heating systems.

Periodical : Teploenergetika, 10, 9-14, 0 1956

Abstract : This article presents a brief account of the research accomplished in 1955 by the Leningrad Laboratory of the Institute of Power Engineering, under the guidance of the author and Prof. L. R. Neyman, Corr. Mem., Acad. Sci., USSR. The most favorable hydraulic and thermal conditions for open-circuit heating systems are determined. The special features of these systems and the parallel operation of Heat and Power Plants are discussed. 7 diagrams. 5 references.

AID P - 5099

Teploenergetika, 10, 9-14, 0 1956

Card 2/2 Pub. 110-a - 2/18

Institution : Leningrad Institute of Engineering and Economics.

Submitted : No date

VOL'KHINA, V.N., inzhener; LEVENTAL', G.B., kandiadt tekhnicheskikh nauk;
MELENT'YEV, L.A., professor.

Use of small and medium back-pressure turbines in industrial heating
and power plants. Prom.energ. 11 no.5:1-8 My '56. (MLRA 9:9)
(Steam turbines)

MELENT'YEV, L.A., professor, doktor ekonomicheskikh nauk.

Basic current tasks of developing district heating. Trudy LBI
n. 12:3-22 1956. (MLBA 10:6)

(Heating from central stations)

MELENT'YEV, L.A., professor, doktor ekonomicheskikh nauk; MICHURINA, K.I.,
dozent, kandidat tekhnicheskikh nauk.

Selecting types of heat supply for apartment houses. Trudy LIEI
no.12:48-72 1956. (MLRA 10:6)
(Heat engineering)

MELENT'YEV, L. A.

PHASE I BOOK EXPLOITATION

848

Leningrad. Inzhenerno-ekonomicheskii institut

- Energetika (Power Engineering) [Leningrad] 1957. 245 p. (Series: Its: Trudy, vyp. 19) 4,000 copies printed.

Eds. (title page): Ayzenberg, B.L. and Melent'yev, L.A.; Ed. (inside book): Slizhis, M.U.; Tech. Ed.: Kononovich, D.P.

PURPOSE: This collection of articles is intended for power engineers of electric power systems and industrial plants, for technical personnel of municipal and factory electric power and heating systems, and for teachers and students of power and electrical engineering vuzes.

COVERAGE: This collection of 17 papers studies problems of the efficient design and development of electric power networks and systems (methods of determining the radius of action of district substations, optimum parameters of municipal electrical networks, and their selective protection), problems of district heating and of

Card 1/14

Power Engineering

848

heat-and-power engineering (methods of evaluating and increasing the thermal efficiency of district heating and the piping systems of TETs (Heat-and Electric Power Plant), conditions for the use of backpressure turbines, selection of drives for hammers and punches, selection of efficient operating conditions of heating systems, methods of increasing the power of condensation systems), and power engineering problems abroad. This collection of articles of LIEI (Leningrad Engineering and Economics Institute) is devoted to the scientific works of special departments of the Power Engineering Faculty of the Institute. These works are an extension and development of previous works, the results of which were published in LIEI issues Nos. 11 and 12, 1956 and No. 16, 1957.

TABLE OF CONTENTS:

Introduction 3

PART I. ELECTRIC POWER ENGINEERING 5

Card 2/14

Power Engineering

848

Nikogosov, S.N., Docent, Candidate of Technical Sciences. Determining the Most Economical Capacity of a District Substation and the Radius of Action of a Network Operating on Generator Voltage of an Electric Power Station

5

The author explains his method of investigation and determines analytically the most efficient capacity of a district substation for different cases of feed source location. He discusses the district substation cost as a function of its power capacity and works out a capital investment equation for the whole electric power transmission. The author gives an analysis of investment costs and power losses of network components: HV network and cells, step-down substations, medium-voltage feed network and cells, and substation transformers. He determines and compares the most economical power capacity of a district substation based on capital expenditures and annual operating expenses. He derives a complete set of equations for the annual operating expenses of electric power transmission and gives conclusions for the most economical power

Card 3/14

Power Engineering

848

capacity and efficient radius of action. There are no references.

Starikov, V.G., Candidate of Economic Sciences. Selection of Economically Expedient Standard Gages of Overhead Line Conductors 33

The author stresses that the existing method of wire gage selection, based on current-density, has serious drawbacks. It usually leaves two neighboring standard gages as an optional choice. He tries to correct this deficiency by a new method of relative economical characteristics for HV transmission lines, which determines the proper choice between two gages. There are no references.

Ayzenberg, B. L., Docent, Candidate of Technical Sciences. Investigation of the Selective Protection of Networks by Safety Fuses 43

Card 4/14

Power Engineering

848

The author summarizes the results of 20 years experience and special investigations in this field made by the Scientific Research Laboratory "Sevzapelektromontazh" and the Leningrad Cable Network. He proves the advantages of the new type of PK safety fuses for 6 to 10-KW closed network circuits. The fuses were developed and produced in 1956 by the "Proletariy" Plant. There are 22 references, of which 14 are Soviet, 6 English and 2 German.

Klionskaya, R.I., Engineer. Electrical Network Parameters for Small and Medium-sized Cities

58

The author states that the choice of parameters for construction of municipal electrical networks was limited until now to Leningrad and Moscow. The purpose of this paper is to supply adequate information for small and medium-sized cities concerning parameters of voltage, wire gages, quantity and capacity of line and distribution substations, and choice of the most economical network layout. The author

Card 5/14

848

Power Engineering

made a series of investigations on two sectors of the Lenin-grad Electric Network. There are 31 Soviet references.

Ayzenberg, B.L., Docent, Candidate of Technical Sciences.
Nonferrous Metal Expenditures in Municipal Distribution Networks 88

The author compares "ideal town" conditions with practical requirements and supplies the necessary parameter indices for nonferrous metal expenditures. There are 6 Soviet references.

Dmitriyev, V.M., Engineer. Optimum Distribution of Rated Voltage
Loss Between Low-and Medium-voltage Networks 93

The author analyzes the voltage loss parameters of 1940 which are still employed in Soviet construction of electric power networks: 6-8% for MV networks and 6% for LV networks. He concludes that a certain increase in network losses obtained when minimizing nonferrous metal expenditures is permissible. There are no references.

Card 6/14

Power Engineering

848

Klebanov, L.D. Determination of Electric Power Losses in the Leningrad Cable Network

99

The author made a study of changes in electric power losses in the Lenenrgo system during the period between 1946 and 1956. He describes a method of network calculation which helps to avoid uneconomical nonferrous metal expenditures and also to prevent an increase of voltage losses. There are no references.

PART II. HEAT-AND-POWER ENGINEERING

Nikonov, A.P., Engineer. Basic Trends in Power Efficiency and Increasing the Economy of District Condensation Power Stations

108

The author explains his method of evaluating the ideal energy efficiency of heat systems of a KES (condensation power station). Further, he discusses a method of tech-

Card 7/14

Power Engineering

848

nical and economic calculation and presents an analysis of factors which determine ways to increase the overall economic efficiency of a KES. He draws attention to the increase of initial steam parameters as a way to achieve technical and economic efficiency of a KES. There are 4 Soviet and 1 English reference.

Kirpichev, V.I., Engineer. Characteristic of Relative Thermal Economy for TETs (Heat-and-Electric Power Plant) with Heating Load

128

According to the author, his paper proves that it is possible to increase considerably the fuel economy of a district heating system by shifting the TETs to higher initial steam parameters. There are 5 Soviet references.

Card 8/14

Power Engineering

848

Grachev, Yu. P., Engineer. Inner Reserves of "Home Heating"
District Heating Systems

137

During the period between March and May 1956, the Lenin-grad Enginnering and Economics Institute together with Teploset' Lenenergo conducted a series of thermographic studies in 24 apartments of the city. The author presents results of these studies in graphical form and analyzes methods for increasing the fuel economy of district home-heating systems. There are 2 Soviet references.

Frolov, V.I., Engineer. Economic Expediency of Employing
Different Power Carriers for Hammer and Punch Drives

148

The author discusses the influence of the type of power carrier used on TETs rated capacity, calculates load and annual electrical energy losses, and also makes a detailed expenditure and investment comparison between steam and electric drive systems for hammer and punches. There are 7 Soviet references.

Card 9/14

Power Engineering

848

Sashonko, G.I., Engineer. Selection of Central Control Operating Conditions for "Open" District Heating Systems (With Quantitative and Qualitative Heat Delivery Control)

170

The author describes two central control methods: $H=const.$ and $G=const.$, the first representing constant consumer demand and the second constant heating-water consumption. These problems were studied on the basis of diagrams of qualitative and quantitative control developed and analyzed with application to the Lenenergo District Heating System. There is also a brief description of an automated mixing substation. There are 10 Soviet references.

Davydova, L.N., Engineer. Experimental Results of Electrical Analysis of the Hydraulics of Heating Systems

184

According to the author the present district heating systems are unable to further increase the economy and

Card 10/14

Power Engineering

848

quality of district heating. She discusses the reasons for this and offers five solutions to the problem. There are 6 Soviet references.

Fut'ko, I.I., Engineer. Applications of "P" and "KO" Type Turbines in Large Power Systems Under Small Heating Loads

194

The author investigates the advantages of employing medium and small district heating plants in a regional network system. The plants can be halted for certain periods daily without great harm to overall economic efficiency. Therefore, medium and small TETs equipped with backpressure turbines of the "P" and "KO" types are very essential for heating, ventilation and process steam loads. The author presents a monogram as an aid in selecting the types of turbines to be used. There are 2 Soviet references.

Kuz'min, V. G., Engineer. An Expanded Method of Determining Labor Expenditures for the Major Overhaul of Thermomechanical Plant Equipment of Electric Power Stations

201

Card 11/14

Power Engineering

848

The author analyzes all factors bearing on labor expenditures for the repair of different types of equipment. In his study he presents a further development of a work by A. S. Sereda, an engineer at GLAVURALENERGO, ("Economics and Technico-Economic Indices of Heat and Power Equipment Maintenance in Electric Power Stations" appearing in Maintenance of Heat Engineering Equipment in Electric Power Stations, Gosenergoizdat, 1952). The author supplies graphs and formulae to make calculation as complete as possible. There is one reference.

PART III. POWER ENGINEERING ABROAD

Bril', L. Ya., Docent, Candidate of Economic Sciences. Development of Power Engineering in the People's Republic of China 218

The author compares the conditions and statistical data of pre-revolutionary China with the transformation and

Card 12/14

Power Engineering

848

growth of power engineering since nationalization. He quotes data and figures on hydrotechnical constructions, district heating systems and power systems. He devotes a chapter to the peculiarities and special features of electric power consumption in China. He also describes the fuel resources and fuel supply of electric power stations, the manufacture of power engineering equipment and discusses the problem of training personnel for the electrical-engineering industry in China. His closing chapter tells of the assistance supplied by the USSR in this field. There are no references.

Kozlov, V.A., Engineer. Municipal Electric Power Systems
Abroad

232

Card 13/14

Power Engineering

848

The author presents a historical survey of the problem and describes in detail two examples (Berlin and Paris) of electric power supply systems abroad. There are 26 references, of which 8 are German, 7 Swiss, 9 English, and 2 Italian.

AVAILABLE: Library of Congress

JP/lrb
11-20-58

Card 14/14

MELENT'YEV, L. A.

2744. RESULTS AND LINES FOR THE DEVELOPMENT OF DISTRICT HEATING IN THE
U.S.S.R. Melent'ev, L.A. (Teplenergetika (Heat-Pwr Engng, Moscow), Nov.
1957, 35-39). An historical review of the development of district heating in
the U.S.S.R., its achievements and the economic results of its wide adoption.
Outstanding problems are examined. (L).

SOV105-58-7-18/32

AUTHORS:

Neyman, L. R., Corresponding Member, Academy of Sciences, USSR
Solotov, V. V., Doctor of Technical Sciences
Melent'yev, L. A., Doctor of Economic Sciences
Glinternik, S. K., Candidate of Technical Sciences
Ravdonik, V. A., Candidate of Technical Sciences

TITLE:

On the Prospects of Using Direct Current Transmissions in
the USSR (O perspektivakh primeneniya elektropredach
postoyannogo toka v Sovetskom Soyuze)

PERIODICAL:

Elektrichestvo, 1958, Nr 7, pp. 71 - 74 (USSR)

ABSTRACT:

This work comments on the article written by N. M. Mel'gunov
in Elektrichestvo, 1957, Nr 2. The following view is ex-
pressed: 1) If restrictions for the nominal output of long-
-distance intermediate-system main electric transmission
lines comparison of alternating current- and direct current
transmissions must be carried out for optimum outputs.
2) In the case of a transmission of great amounts of energy
over long distances by utilizing the technical maximum capa-
city of a line, the advantages in case of a direct current

Card 1/3

SOV/105-58-7-18/32

On the Prospects of Using Direct Current Transmissions in the USSR

transmission are so great with respect to capital investments and to annual expenses that they cover the amount of any possible error caused by estimating expenses. 3) The power moment per circuit may serve as a characteristic index for a large-scale main transmission. This index is equal to the product of the nominal output P of the circuit and the length L of the transmission line. In the case of $M < 1200 \text{ GW.km}$ alternating current transmission, and in the case of $M > 2400 \text{ GW.km}$ direct current transmission is more advantageous. 4) The existence of large hydroelectric power reserves and easily accessible coal deposits (which allow surface mining) of low heating value, in West- and Central Siberia without doubt makes it possible to use d.c. transmissions on the main lines in consideration of the great fuel deficit in the Ural and other Western areas. 5) Besides the continuation of work in the Institut postoyanogo toka (Institute of Direct Current), in the Energeticheskiy institut Akademii nauk SSSR (Institute of Power Engineering, AS USSR), in the Vsesoyuznyy elektrotekhnicheskiy institut (All-Union Institute of Electro-Engineering) and in other organizations for the improvement of the circuits of

Card 2/3

SOV105-58-7-18/32

On the Prospects of Using Direct Current Transmissions in the USSR

transforming stations and their elements especially in the field of direct current switches, - it is absolutely necessary to pay attention to the industrial production of this promising type of new engineering and to apply it under real operational conditions. From this point of view, the construction of the transmission of the hydroelectric power station Stalingrad - Donbass would also be necessary even if substantial additional sums would have to be invested, but this is, in reality, not the case. There are 4 tables.

ASSOCIATION: Energeticheskiy institut im. Krzhizhanovskogo Akademii nauk SSSR (Institute of Power Engineering imeni Krzhizhanovskiy, AS USSR)

1. Transmission lines--Performance

Card 3/3

MELENT'YEV, L.A.

p.3

SOV/96-52-11-18/21

AUTHOR: Leont'yeva, T.K., Candidate of Technical Science
Monastyrskaya, A.R., Engineer

TITLE: An All-Union Conference on the Future Development
of District Heating in the USSR (Vsesoyuznoye
soveshchaniye po voprosam dal'neyshego razvitiya
teplofikatsii SSSR)

PERIODICAL: Teploenergetika, 1958, Nr 11, pp 90-92 (USSR)

ABSTRACT: On the 11th - 13th July, 1958, there was held in
Moscow an All-Union Congress on the Further
Development of District Heating in the Soviet Union,
organised by the Moscow Directorate of the Scientific
Technical Society of the Power Industry and the
District Heating Section of the High Temperature
Steam Commission of the Power Institute, Academy of
Sciences (USSR). The Conference was attended by
240 representatives from 16 cities. Design,
Scientific research, teaching and other organisations,
heat and electric power stations, GOSPLAN USSR and
Councils of National Economy were represented. Chinese
and Polish power engineers also participated. Reports

Card 1/6

SOV/96-58-11-18/21

An All-Union Conference on the Future Development of District Heating in the USSR

were read on the future development of district heating for 1959-65, on the effectiveness of district heating and its main lines of development, on reducing the construction cost of district heating equipment and on related topics. Engineer B.I.Duba of the Ministry of Electric Power Stations, reviewed the present state of heat supply, its expected development and the tasks of research and design organisations in this matter. S.F.Kopyev, Doctor of Technical Science of the Power Institute, Academy of Sciences USSR, stated in his report that in the USSR district heating is the main method of heat supply to industry and towns. There is considerable lag in the application of district heating in some of the older towns. With increased availability of large power stations, freer supply of gas oil and cheap fuel, district-heating schemes are no longer so easy to justify. The Power Institute, Academy of Sciences USSR, has made a technical economic analysis of the subject based on determinations of the pay-off

Card 2/6

SOV/96-58-11-18/21

An All-Union Conference on the Future Development of District Heating in the USSR

time of the capital expenditure. The conclusions are presented and it is considered that district heating is still to be advised even when large power systems are available. Data are given about the smallest sizes of power station in which district heating is advisable. The report indicates the main lines of development of heat- and electric-power stations. L.A. Melentyev Doctor of Economic Science of the Leningrad Engineering Economic Institute and the Leningrad Laboratory of the Power Institute, Academy of Sciences USSR, described the great increase in district heating during 1950-1957. Much can still be done to make district heating more economic. In a number of existing power stations, little benefit is obtained from combined power- and heat-supply because of delays in the construction of heating networks and excessive cost of district-heating equipment. The utilisation of heat in industry is increasing very

Card 3/6

SOV/96-53-11-18/21

An All-Union Conference on the Future Development of District
Heating in the USSR

rapidly by approximately 50% in five years and it is therefore, important to avoid the use of uneconomic industrial boiler houses. During the next seven years it will be necessary to increase the output of heat for industrial use from heat and electric-power stations by a factor of at least $2^{1/2}$. A.A.Nikolayev, Engineer of Teploelektroproyekt, in his report considered the main methods of reducing the cost of construction of district-heating stations and heating systems. Power stations can be made larger by supplying both domestic and industrial heat requirements. Water-heating and low-pressure steam boilers should be used to cover peak loads. A.I.Lozhkin, Doctor of Technical Science of the Central Boiler Turbine Institute, pointed out that with the increased importance of gas as a power fuel it was becoming possible to construct heat and electric power-stations with combined steam/gas installations and that by using the steam/gas cycle the amount of electricity generated in connection with heat supply could be

Card 4/6

SOV/96-58-11-18/21

An All-Union Conference on the Future Development of District Heating in the USSR

increased by 30 - 50%. The most important part of the discussion in the conference was on the papers of Kopyev and Melentyev. The Conference noted the achievements in district heating during the last 34 years but listed a number of defects. The Conference agreed with the proposed rate of increase of heat supply from heat and electric power-stations. The importance of building larger stations and avoiding the construction of industrial boiler houses was emphasised. Recommendations were made on the design of rational types of district-heating turbines and boilers for regional and peak boiler houses. The conference asked GOSPLAN and the Sovnarkhozy (Councils of National Economy) to plan the development of power

Card 5/6

SOV/96-58-11-18/21

An All-Union Conference on the Future Development of District
Heating in the USSR

for the economic regions with proper allowance for
combined electricity, heat and gas supply for
industrial, domestic and agricultural requirements.

Card 6/6

DOYNIKOVA, Ya.P., inzh.; MELENT'YEV, L.A., prof.

Method for determining fuel savings and annual expenses caused
by the building of hydroelectric power stations. Elek.sta.
29 no.11:8-13 N '58. (MIRA 11:12)
(Hydroelectric power stations)

25(5); 14(6)

PHASE I BOOK EXPLOITATION

SOV/2130

Melent'yev, L.A., and Ye. O. Shteynganz

Ekonomika energetiki SSSR (Power Economics of the U.S.S.R.) Moscow,
Gosenergoizdat, 1959. 395 p. Errata slip inserted. 4,600 copies printed.

Ed.: Ye. A. Yelokhin; Tech. Ed.: G. Ye. Larionov.

PURPOSE: The book is intended for power production engineers and economists engaged in planning and formulating power utilization policy. The book may also be used by students of power engineering and power economics.

COVERAGE: The book describes and analyzes every phase and function of the planning, organizing, and cost estimating of power generation in the USSR. In comparing various schemes for operating a power installation, the authors analyze the economic factors governing the selection of the most effective system for each particular case. Multi-purpose power projects, including steam generation and the district heating system, are evaluated and capabilities under most favorable conditions stated. The book stresses the advantages of the Socialist approach in power economics through supplying the power plants

Card 1/11

Power Economics of the U.S.S.R.

SOV/2130

with the cheapest fuel and through diversified centralized distribution of energy to suit regional needs. The control techniques, such as statistical and graphic methods, are exemplified by Soviet practice. In each section the author attempts to embrace the gist of the tested knowledge in one specific field; the conclusions are derived from detailed comparison of the existing operating methods and illustrated with numerous cases, forms, tables, and charts. There are 71 Soviet references. Chapters 1, 3, 7, 12-18, and 21 were compiled by L.A. Melent'yev, the remaining chapters by Ye.O. Shteyngauz. The manuscript was reviewed by Professor Ye. A. Russakovskiy.

TABLE OF CONTENTS:

Foreword	3
Introduction	9

SECTION I. GENERAL FEATURES OF POWER ECONOMICS IN THE USSR

Ch. I. Power Economics in the USSR and the Trends of Its Development	15
1. Role of electrification in the development of national economy	15
2. Present-day electric power base of the USSR	17

Card-2/11

SOV/96-59-3-17/21

Modern Tendencies in the Fuel/Power Balance of the Principal
Capitalist Countries

correspond to the immediate problems of the Soviet power industry. The article then discusses at some length and with a wealth of tables the main relationships in the production and utilisation of petroleum, coal and natural gas. Particular attention is paid to the USA and the difference between tendencies there and in European countries is discussed. The policy of the oil companies in making fuel oil cheap and light oils expensive is discussed in relation to its effect on the coal industries of different countries and their dependence on petroleum. The conclusion is reached that the fuel/power balance and the whole position of Western Europe is largely determined by the economic policy of the USA. The relative development of thermal and hydro-electric power stations in the main capitalist countries is then considered. The relative rates of growth of thermal and hydro-electric power in different capitalist countries varies widely and this is not only because of the differing availability of hydro-electric resources.

Card 2/5

SOV/96-59-3-17/21

Modern Tendencies in the Fuel/Power Balance of the Principal
Capitalist Countries

The use of higher steam conditions in the USA is discussed. It is stated that the use of critical and super-critical steam conditions is regarded in the USA only as a large-scale industrial experiment, mainly because fuel is relatively cheap there. In Western Europe, fuel is much more expensive which explains the special interest of these countries in gas turbine and steam-gas installations. Sets of this kind are particularly recommended for covering the peak load. Similarly, the general tendency is to use hydro-electric power stations to cover the peak load. However, in many of the capitalist countries the most easily developed hydro-electric sites are already in use and further development is becoming increasingly expensive. As a whole, in capitalist practice, hydro-electric power stations cost 1.2 - 2.2 times as much as a thermal power station. The corresponding ratio in the Soviet Union, excepting certain large hydro-electric power stations of Eastern Siberia, is 2.5 - 3.5. This is largely because of the absence of high-head sites but

Card 3/5

SOV/96-59-3-17/21

Modern Tendencies in the Fuel/Power Balance of the Principal
Capitalist Countries

also because a good deal could be done to reduce costs in Soviet stations. In some foreign countries the need to cut fuel imports is an important consideration. This can sometimes lead to the odd result that the water-power stations are used to cover the base load and steam power stations to cover the peak load, as occurs for example in Canada. The following main conclusions are reached on the basis of the review of foreign practice. There is strong competition both inside individual countries and in the international market between companies producing and using different kinds of fuel and electric power. There is a tendency for the USA to achieve control of the economies of other countries such as Western Europe and Canada by orientating the power development of these countries towards fuel and power resources that are either located in the USA or controlled by American capital. In addition the American government is widely encouraging private investment of American capital in the development of power engineering in other

Card 4/5

SOV/96-59-3-17/21

Modern Tendencies in the Fuel/Power Balance of the Principal
Capitalist Countries

countries, for example, in Canada. On the other hand, many countries are trying their best to use their own power resources to avoid foreign exchange complications, particularly Portugal, Uruguay, Canada and Western Europe. In some countries, particularly Canada and partially the USA, there is a tendency to construct large power stations burning coal because of its cheapness. There are 9 tables and 2 Soviet references.

Card 5/5

VEITS, V.I.; MELENT'YEV, L.A.; and STYRIKOVICH, M.A.

[Methods of Investigation of Energy Requirements;
"Principles of Compiling Energy Balance in the USSR."

report to be presented at the Sectional Meeting of the World Power Conference
Madrid, Spain, 5-9 June 1960.

MELENT'YEV, L.A.

Possibilities for the development of heating from central stations
and the use of electric power for heating purposes in the U.S.S.R.
Teploenergetika 7 no. 12:75-76 D '60. (MIRA 14:1)

1. Chlen-korrespondent AN SSSR.
(Heating from central stations) (Electric heating)

BOLOTOV, V.V.; GERASIMOV, V.N.; GOFMAN, I.V.; KAMENSKIY, M.D.;
MELENT'YEV, L.A.; PRINTSEV, A.A.; USOV, S.V.; SHEGLOV, A.P.

Suren Nikolaevich Nikogosov; obituary. Elektrichestvo no.10:
93 0 '60. (MIRA 14:9)
(Nikogosov, Suren Nikolaevich, 1900-1960)

VEYTS, V.I.; MELENT'YEV, L.A.; STYRIKOVICH, M.A.

Basis for establishing a fuel and electric power balance in the
U.S.S.R. *Elek.sta.* 31 no.7:34-41 J1 '60. (MIRA 13:8)

1. Chleny-korrespondenty AN SSSR (for all)
(Electric power) (Fuel)

MELENT'YEV, L.A.

Concerning the Trends of Scientific Work of the Power Engineering
Institute of the Siberian Branch, Academy of Sciences, USSR

Report submitted at the Conference on Electrification of Siberia,
Development and Unification of its power systems, 7-9 Dec 61,
JPRS: 20,730 20 Aug 63

Izv. Sib. otdel nauk SSSR , No.2 Novosibirsk, pages 131-132 1962

ARTYUGIN, I.M.; GRACHEV, Yu.P.; DAVYDOV, L.N.; DOYNIKOV, Ya.P.; KIRPICHEV, V.I.; LEVENTAL', G.B.; MELENT'YEV, L.A.; MICHURIN, K.I.; NIKONOV, A.P.; SASHONKO, G.I.; STARIKOV, V.G.; FROLOV, V.I.; KHRILEV, L.S.; RABINOVICH, A.L., red.; SOBOLEVA, Ye.M., tekhn. red.

[Technical and economic principles of the expansion of heat supply engineering in power systems] Tekhniko-ekonomicheskie osnovy razvitiia teplofikatsii v energosistemakh. Moskva, Gos. energ. izd-vo, 1961. 318 p. (MIRA 15:3)
(Heat engineering) (Electric power plants)

MELENT'YEV, L.A.; NEYMAN, L.R.

Basic problems concerning the state of the fuel and power balance
and the establishment of a consolidated electric power system in
the U.S.S.R. Sbor. rab. po vop. elektromekh. no.6:3-17 '61.

(MIRA 14:9)

(Interconnected electric utility systems) (Power engineering)

MELENT'YEV, L.A., otv. red.; SYROV, Yu.P., kand. tekhn. nauk;
BUSHUYEVA, V.M., red.; VYALYKH, A.M., tekhn. red.

[Features of the choice of certain parameters and modes of operation of hydroelectric power stations in the electric power systems of Siberia] Osobennosti vybora nekotorykh parametrov i rezhimov raboty GES v energeticheskikh sistemakh Sibiri. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1962. 135 p. (Its: Trudy) (MIRA 16:6)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Energeticheskyy institut. 2. Chlen-korrespondent AN SSSR (for Melent'yev), (Siberia--Hydroelectric power stations)

MELENT'YEV, L.A.; STYRIKOVICH, M.A.; SHTEYNGAUZ, Ye.O.; ZAMYATINA,
I.M., red.; LARIONOV, G.Ye., tekhn. red.

[Fuel and power resources balance of the U.S.S.R.; basic
problems in economics and planning] Toplivno-energeticheskii
balans SSSR; osnovnye voprosy ekonomiki i planirovaniia. Mo-
skva, Gosenergoizdat, 1962. 207 p. (MIRA 15'9)
(Power resources) (Fuel)

KUZNETSOV, Yu.A., inzh.; MERENKOV, A.P., inzh.; MELENT'YEV, L.A.:
NEKRASOV, A.S., kand.ekon.nauk

Using electronic calculating machines for analyzing the optimum
structure of a promising power balance. Teploenergetika 9 no.5:
3-10 My '62. (MIRA 15:4)

1. Energeticheskiy institut Sibirskogo otdeleniya AN SSSR.
2. Chlen-korrespondent AN SSSR (for Melent'yev).
(Power resources)

KOSTENKO, M.V.; NEYMAN, L.R.; MELENT'YEV, L.A.; KAMENSKIY, M.D.; BOLOTOV,
V.V.; ZALESSKIY, A.M.; USOV, S.V.; SHCHEDRIN, N.N.; GERASIMOV, V.N.;
DUBINSKIY, L.A.

B.L.Aizenberg; on his 60th birthday. Elektrichestvo no.11:94
N '62. (MIRA 15:11)
(Aizenberg, Boris L'vovich, 1902-)

MELENT'YEV, L.A., DOLGINOV, A.I., doktor tekhn.nauk, prof. (Moskva);
MEL'NIKOV, N.A., prof. (Moskva); YURENKOV, V.D., kand. tekhn.nauk
(Moskva); SHCHERBAKOV, V.K., doktor tekhn.nauk (Novosibirsk)

"Long-distance electric power transmission" and "Prospects for
increasing the voltage of overhead power transmission lines" by
I.A.Syromiatnikov and others. Reviewed by L.A.Melet'ev and
others. Elektrichestvo no.2:85-88 F '63. (MIRA 16:5)

1. Sibirskiy energeticheskiy institut. 2. Chlen-korrespondent
AN SSSR (for Melet'yev).
(Electric power distribution) (Electric lines--Overhead)
(Syromiatnikov, I.A.)

MELENT'YEV, Lev Aleksandrovich; SHTEYNGAUZ, Yevgeniy Oskarovich;
RUSSAKOVSKIY, Ye.A., prof., retsenzent; UGORTS, I.I., inzh.,
retsenzent; YELOKHIN, Ye.A., red.; YEFREMOV, V.K., red.;
BORUNOV, N.I., tekhn. red.

[Economics of the power supply of the U.S.S.R.] Ekonomika
energetiki SSSR. Izd. 2., perer. i dop. Moskva, Gosenergo-
izdat, 1963. 430 p. (MIRA 16:8)
(Power resources)

LEVENTAL', G.B., kand. tekhn. nauk; POPIRIN, L.S., kand. tekhn. nauk;
MELENT'YEV, L.A.

Choice of the parameters of condensing electric power plants
in accordance with district conditions. Teploenergetika 10
no.7:2-8 JI '63. (MIRA 16:7)

1. Sibirskiy energeticheskiy institut Sibirskogo otdeleniya
AN SSSR. 2. Chlen-korrespondent AN SSSR (for Melent'yev).
(Electric power plants)

KARPOV, V.G.; (Irkutsk); MELENT'YEV, L.A., (Irkutsk)

Principal premises for the creation and development of mathematical modeling methods in power engineering. Izv. AN SSSR. Energ.
i transp. no.4:403-409 Jl-Ag '63. (MIRA 16:11)

MELENT'YEV, L.A.; LEVENTAL', G.B.

"Thermal section of electric power plants (thermal systems)." S.IA.
Belinskii, V.A. Vediaev. Reviewed by L.A. Melent'ev, G.B. Levental'.
Elek. sta. 34 no.6:96 Je '63. (MIRA 16.11)

1. Chlen-korrespondent AN SSSR (for Melent'yev).
(Electric power plants)
(Belinskii, S.IA.)
(Vediaev, V.A.)

MELENT'YEV, L.A.

Objectives of scientific research in the balance of power
resources. Elektrichestvo no.2:1-8 F '64.

(MIRA 17:3)

1. Chlen-korrespondent AN SSSR.

KUZNETSOV, Yu.A.; MAKAROV, A.A.; MELENT'YEV, L.A.; MERENKOV, A.P.; NEKRASOV, A.S.; TSVETKOV, N.I.; KUZNETSOV, Yu.A.; MAKAROVA, A.S.; KARPOV, V.G.; MANSUROV, Yu.V.; SYROV, Yu.P.; KHRILEV, L.S.; TSVETKOVA, L.A.; VOYTSEKHOVSKAYA, G.V.; YEFTIMOV, N.T.; LEVENTAL', G.B.; KHANAYEV, V.A.; BELYAYEV, L.S.; GAMM, A.Z.; KARTELEV, B.G.; KRUMM, L.A.; LIOPO, T.N.; SVIRKUNOV, N.N.; DRUZHININ, I.P.; KONOVALENKO, Z.P.; KHAM'YANOVA, N.V.; SHVARTSBERG, A.I.; NIKONOV, A.P.; STARIKOV, L.A.; POPYRIN, L.S.; PSHENICHNOV, N.N.; TROSHINA, G.M.; CHEL'TSOV, M.B.; SVETLOV, K.S.; SUMAROKOV, S.V.; TAKAYSHVILI, M.K.; TOLMACHEVA, N.I.; KHASILEV, V.Ya.; KOSHELEV, A.A.; KUDINOVA, L.I., red.

[Methods for using electronic computers in the optimization of power engineering calculations] Metody primeneniia elektronno-vychislitel'nykh mashin pri optimizatsii energeticheskikh raschetov. Moskva, Nauka, 1964. 318 p.

(MIRA 17:11)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Energeticheskii institut. 2. Chlen-korrespondent AN SSSR (for Melent'yev).

MELENT'YEV, L.A. (Irkutsk); SYROV, Yu.P. (Irkutsk)

Method for optimizing power system development using mathematical
models. Izv. AN SSSR. Energ. i transp. no.5:531-542 S-0 '64.
(MIRA 17:12)

MELENT'YEV, L.A.

Prospective fuel-power balance of the U.S.S.R. and problems of heat supply. Teplonergetika 11 no.11:2-6 # '64.

(MIRA 17.12)

1. Energeticheskiy institut Sibirskogo otdeleniya AN SSSR;
chlen-korrespondent AN SSSR.

MELENT'YEV, L.A.

Review of E.IA. Sokolov's book "Centralized heat supply and heating networks". Izv. vys. ucheb. zav.; energ. 8 no.1:120-121 Ja '65.

(MIRA 18:2)

1. Sibirskoye otdeleniye AN SSSR; chlen-korrespondent AN SSSR.

AYZENBERG, B.L.; BOLOTOV, V.V.; BRIL', R.Ya.; GERASIMOV, V.N.; GREKOV, V.I.;
DOVETOV, M.Sh.; KAMENSKIY, M.D.; KLEBANOV, L.D.; KONSTANTINOV, B.A.;
KUZ'MIN, V.G.; LYUBAVSKIY, V.I.; MELENT'YEV, L.A.; MIKHALEV, N.N.;
POLYANSKIY, V.A.; RAZDROGINA, L.A.; SIVAKOV, Ye.R.; STARIKOV, V.G.;
SAVASHINSKAYA, V.I.; SHAYOVICH, L.L.

Igor' Valentinovich Gofman, 1903-1963; obituary. Trudy LIEI
no.51:3-4 '64. (MIRA 18:11)

MELENT'YEV, L.A.

Problems in the optimization of power balance in the U.S.S.R.
Vest. AN SSSR 35 no.12:17-25 D '65.

1. Chlen-korrespondent AN SSSR.

(MIRA 19:1)

MELENT'YEV, L.K., inzh.

Improvement of the DRS-59 apparatus. Avtom., telegr. i svyaz' 6 no.7:
38 J1 '62. (MIRA 16:2)

1. Sol'vnyehodakaya distantziya signalizatsii i svyazi Severnoy
dorogi. (Railroads —Signaling) (Railroads—Electronic equipment)

MELENT'YEV, L.K., inzh.

Simple and advantageous. Avtom. telem. i sviaz' 8 no.1:39 Ja '64.
(MIRA 17:3)

1. Solovychegodskaya distantziya signalizatsii i svyazi Severnoy
dorogi.

MELENT'YEV, L. P.

"Investigation of the Basic Factors Influencing Lateral Wear of Rails on Curves."
Cand Tech Sci, All-Union Sci-Res Inst of Railroad Transport, Moscow, 1954. (KL, No 1,
Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational
SC: Sum. No 528, 29 Jul 55

MELENT'YEV, L.P., kandidat tekhnicheskikh nauk; SMIRNOV, A.I., kandidat
tekhnicheskikh nauk.

Rail deformation on factory railroads carrying hot loads. Vest.
TSNII MPS 15 no.2:49-51 S '56. (MLBA 9:12)
(Railroads--Rails)

MELENT'EV, L.P., kandidat tekhnicheskikh nauk.

Graphic method of determining the point of contact of wheel
flanges and rail in curves. Vest. TSNII MPS 15 no.4:43-45
D '56. (MLRA 10:2)

(Railroads--Curves and turnouts) (Car wheels)

MELENT'YEV, L.P.

YERSHKOV, O.P., kandidat tekhnicheskikh nauk; MELENT'YEV, L.P., kandidat tekhnicheskikh nauk; YAKHOV, M.S., inzhener.

New norms for constructing and maintaining rails on the curved parts of tracks. Zhel.dor.transp. 38 no.10:64-69 0 '56. (MLRA 9:11)
(Railroads--Curves and turnouts)

MELENT'YEV, L.P., inzhener.

Instrument measures rail wear. Put' 1 put. khoz. no.1:38-39 Ja '57.

(Railroads--rails)

(MLRA 10:4)

(Mechanical wear--Measurement)

MELENT'YEV, L.P., kandidat tekhnicheskikh nauk; GOLUTVINA, T.K., inzhener.

Effect of the type of railroad car on lateral rail wear. Vest.
TSNII MPS 16 no. 4:46-49 Je '57. (MLRA 10:8)
(Railroads--Rails)

ANDRIYEVSKIY, S.M., kand. tekhn. nauk; MELENT'YEV, L.P., kand. tekhn. nauk.

Two stages in the lateral wear of rails on curves. Vest. TSNII MPS
17 no.4:19-22 Je '58. (MIRA 11:6)

(Railroads--Rails) (Mechanical wear)

MELENT'YEV, L.P., kand. tekhn. nauk.

Investigating the causes of lateral rail wear on curves. Trudy
TSNII MPS no.154:261-311 '58. (MIRA 12:1)
(Railroads--Rails) (Railroads--Curves and turnouts)

SHEMYAKIN, Viktor Nikolayevich, kand.tekhn.nauk. Primali uchastiye:
MELENT'YEV, L.P., kand.tekhn.nauk; SHOLOKHOVA, A.N.. SOKOLOV,
A.N., inzh., red.; BOBHOVA, Ye.N., tekhn.red.

[Track maintenance on reinforced concrete ties] Tekushchee
soderzhanie puti na zhelezobetonnykh shpalakh. Moskva, Gos.
transpor.zhel-dor.izd-vo, 1959. 61 p. (MIRA 12:9)

1. Nachal'nik Berdichevskoy distantzii puti Tugo-Zapadnoy
dorogi (for Sholokhova).
(Railroads--Ties, Concrete)

MELENT'YEV, L.P., kand.tekhn.nauk

Instrument for determining rail cant. Put.1 put.khoz. 4 no.8:
32 Ag '60. (MIRA 13:7)
(Railroads--Rails--Testing)

MELENT'YEV, L.P., kand.tekhn.nauk

Changes in the head shape of exterior rails on curves due
to wear. Vest.TSHII MFS 19 no.4:42-43 '60.

(MIRA 13:7)

(Railroads--Rails)

MELENT'YEV, L.P., kand.tekhn.nauk

Results of observations conducted on the development of the side
wear of rails in various operational conditions. Trudy TSNII MPS
no.220:100-122 '61. (MIRA 15:1)
(Railroads--Rails--Testing)

MELENT'YEV, L.P., kand.tekhn.nauk

Effect of the rail head shape on the intensity of the development
of the side wear and defect 82. Trudy TSNII MPS no.220:123-143
'61. (MIRA 15:1)

(Railroads--Rails--Testing)

MELENT'YEV, L.P.; FILIPPOVA, L.S., red.; VOROB'YEVA, L.V., tekhn.
red.

[Rail lubrication on curved track sections] Smazyvanie rel'sov
na krivykh uchastkakh puti. Moskva, Transzheldorizdat, 1962.
35 p. (MIRA 15:9)

(Railroads—Rails—Lubrication)

MELENT'YEV, L. P., inzh.; TSURKAN, I. G., inzh.

Practical application of new developments. Put' i put. khoz. 7
no.3:29-30 '63. (MIRA 16:4)

(Railroads—Rails—Lubrication)

MELENT'YEV, L.P., kand.tekhn.nauk; TSUKANOV, P.P., kand.tekhn.nauk; CHERNYSHEV,
M.A., prof.

Means of increasing the efficiency of the operation of track facilities.
Zhel.dor.transp. 46 no.11:54-58 N '64.

(MIRA 18:1)

MEYENT'YEV, L.P., kand. tekhn. nauk ZOLOTOVA, V. I., inzh. SOPIN, L. I.

Field testing of rails. Trudy TSNII MPS no. 292354-78 '65.

(MIRA 18:10)

MELENT'YEV, L.P., kand.tekhn.nauk; TSURKAN, I.O., kand.tekhn.nauk

Grease lubricants reduce the wear of wheel flanges and rails. Trudy
TSNII MPS no.292:104-153 '65. (MIRA 18:10)

MELENT'YEV, M.G.

Characteristics of endemic goiter in the Charysh District of the
Altai. Probl. endok. 1 gorm. 6 no. 5:113-118 '60. (MIRA 14:1)
(CHARYSHSKOYE DISTRICT—GOITER)

MELENT'YEV, M.G.

Surgery in atresia of the large intestine. Vest.khir. no.8:
100-101 '61. (MIRA 15:3)

1. Iz khirurgicheskogo otdeleniya (zav. - M.G. Melent'yev)
Charyshskoy rayonnoy bol'nitsy Altayskogo kraya.
(INTESTINES---ABNORMITIES AND DEFORMITIES)

SOURCE CODE: UR/0000/65/000/000/0142/0154 /5

ACC NR: AT6028379

AUTHOR: Bachin, A. P.; Bekzhanov, G. R.; Brodovoy, V. V.; Gol'dshmidt, V. I.; Zhivoderov, A. B.; Zlavdinov, L. Z.; Ivanov, O. D.; Klenshin, I. N.; Kolmogorov, Yu. A.; Kotlyarov, V. M.; Kuz'min, Yu. I.; Kuminova, M. V.; Kunin, N. Ya.; Lyubetskiy, V. G.; Melent'yev, M. I.; Morozov, M. D.; Tret'yakov, V. G.; Tychkova, T. V.; Tsaregradskiy, V. A.; Eydlin, R. A.

ORG: none

TITLE: Geophysical sketch map of Kazakhstan

SOURCE: International Geological Congress. 22d, New Delhi, 1964, Geologicheskkiye rezul'taty prikladnoy geofiziki (Geological results of applied geophysics); doklady sovetskikh geologov, problema 2. Moscow, Izd-vo Nedra, 1965, 142-154

TOPIC TAGS: ~~Kazakhstan~~ geophysical map, ~~geophysical map~~, tectonic ~~regional study~~

ABSTRACT: On the basis of regional geophysical and geological investigations (seismic, gravimetric, magnetoelectric), a composite geophysical sketch map of the physical fields of Kazakhstan has been compiled. From this map, the major tectonic zones, deep structures, and geological structural zones are defined. Long zones representing high field gradients in the gravitational and magnetic fields reflect deep geosutures, which seismic sounding data suggest are scarps in the M-discontinuity.

Card 1/2

L 42131-06

ACC NR: AT6028379

Among the major structural zones of Kazakhstan defined are: 1) the Turgayskaya, 2) the Petropavlovskaya, 3) the Uspenskaya, 4) the Tokrauskaya, and 5) the Dzhalaïr-Naymanskaya. Regions of magmatism are also defined. In the tectonic depression zones, contour lines indicate the thickness of the sedimentary cover, overlying the folded basement, and possible oil-bearing formations. Orig. art. has: 1 figure. [DM]

SUB CODE: 08/ SUBM DATE: 06Jan65/ ATD PRESS: 5063

Curd 2/2/

ACC NR: AR6024837

SOURCE CODE: UR/0169/66/000/004/G003/G004

AUTHOR: Bekzhanov, G. R.; Brodovoy, V. V.; Gol'dshmidt, V. I.; Zhivoderov, A. B.; Zlavdinov, L. Z.; Ivanov, O. D.; Klechin, I. N.; Kolmogorov, Yu. A.; Bachin, A. P.; Kotlyarov, V. M.; Kuz'min, Yu. I.; Kuminova, M. V.; Kunin, N. Ya.; Lyubetskiy, V. G.; Malent'yev, M. I.; Morozov, M. D.; Tret'yakov, V. G.; Tychkova, T. V.; Tsaregradskiy, V. A.; Eydiin, R. A.

TITLE: A schematic geophysical map of Kazakhstan

SOURCE: Ref. zh. Geofizika, Abs. 4G17

REF SOURCE: Sb. Geol. rezul'taty prikl. geofiz. Geofiz. issled. stroyeniya zemn. kory. M., Nedra, 1965, 142-154

TOPIC TAGS: geologic survey, geologic prospecting, map

ABSTRACT: Regional geophysical surveys are conducted in Kazakhstan to divide the territory into tectonic regions, to study its plutonic structure, and to solve some problems of geophysical mapping. The results of these surveys will make it possible to establish structural belts and regions in which minerals are likely to be found. The basic material will be obtained from investigations of the magnetic and gravitational fields in combination with seismic studies. In the magnetic and gravitational fields, tectonic and plutonic seams are isolated which correspond to terraces in the

Card 1/2

UDC: 550.311(574)

ACC NR: AR6024837

Mohorovicic discontinuity. Methods of regional geophysics are used to study the plutonic structure of a folded base, the structure and thickness of sedimentary sheaths, and to indicate prospective petroleum bearing uplifts. [Translation of abstract]
M. Speranskiy

SUB CODE: 08

Card 2/2

MELENT'YEV, M.V.

Practice of Latvian river transportation workers in handling craft
by the pusher method. Rech.transp.16 no.2:27-28 F '57.

(MLRA 10:3)

(Latvia--Towing)

S/123/61/000/015/010/032
A004/A101

AUTHOR: Melent'yev, N. P.

TITLE: Peculiarities of development and of technological processes in the introduction of gang machining of parts

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 15, 1961, 2, abstract 15B5. (V sb. "Gruppovaya tekhnol. v mashinostr. i priborostr." Moscow - Leningrad, Mashgiz, 1960, 318-322)

TEXT: The author reports on the work in connection with the introduction of gang machining methods as a result of which an economic effect was obtained and the preparation times in production were reduced. When developing the classifiers, the operation was taken as the basis, rather than the part being machined, which made it possible to place in one gang a great number of different parts and obtain a fuller load of the machine tool. In addition to a sketch of the standard part, the classifier contained its maximum and minimum dimensions, clamping method, class of accuracy and class of part surface finish, equipment and setting sketch. For the development of the setting card the most intricate part of the given gang is taken. The author presents data on the sequence of filling in the

Card 1/2

Peculiarities of development ...

S/123/61/000/015/010/032
A004/A101

other technological documents. In connection with the introduction of gang working methods multi-purpose high-efficiency rapid-resetting fixtures have been developed which make it possible to transfer 64% of milling operations, 26.5% of lathe and turret-lathe work and also 14.2% of drilling operations to machining in these fixtures. There are 3 photos.

D. Vaks

[Abstracter's note: Complete translation]

Card 2/2